



SEQUENCE LISTING

<110> STEINMAN, RALPH A.
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SWIGGARD, WILLIAM J.
JIANG, WANPING

<120> IDENTIFICATION OF DEC, A RECEPTOR WITH
C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS
ENCODING DEC, AND USES THEREOF

<130> RUJ-001CNRCE2

<140> 09/586,704

<141> 2000-06-05

<150> 08/381,528

<151> 1995-01-31

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<223> C terminal DEC-205

<400> 1

Arg	His	Arg	Leu	His	Leu	Ala	Gly	Phe	Ser	Ser	Val	Arg	Tyr	Ala	Gln
1				5					10					15	

Gly Val Asn Glu Asp Glu Ile Met Leu Pro Ser Phe His Asp

			20					25						30	
--	--	--	----	--	--	--	--	----	--	--	--	--	--	----	--

<210> 2

<211> 25

<212> PRT

<213> Mus musculus

<220>

<223> N terminal DEC-205

<400> 2

Ser	Glu	Ser	Ser	Gly	Asn	Asp	Pro	Phe	Thr	Ile	Val	His	Glu	Asn	Thr
1				5					10					15	

Gly Lys Cys Ile Gln Pro Leu Phe Asp

			20					25							
--	--	--	----	--	--	--	--	----	--	--	--	--	--	--	--

<210> 3
 <211> 1723
 <212> PRT
 <213> Mus musculus

<220>
 <223> Predicted DEC-205

<400> 3
 Met Arg Thr Gly Arg Val Thr Pro Gly Leu Ala Ala Gly Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Arg Ser Phe Gly Leu Val Glu Pro Ser Glu Ser Ser Gly
 20 25 30
 Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr Gly Lys Cys Ile Gln
 35 40 45
 Pro Leu Ser Asp Trp Val Val Ala Gln Asp Cys Ser Gly Thr Asn Asn
 50 55 60
 Met Leu Trp Lys Trp Val Ser Gln His Arg Leu Phe His Leu Glu Ser
 65 70 75 80
 Gln Lys Cys Leu Gly Leu Asp Ile Thr Lys Ala Thr Asp Asn Leu Arg
 85 90 95
 Met Phe Ser Cys Asp Ser Thr Val Met Leu Trp Trp Lys Cys Glu His
 100 105 110
 His Ser Leu Tyr Thr Ala Ala Gln Tyr Arg Leu Ala Leu Lys Asp Gly
 115 120 125
 Tyr Ala Val Ala Asn Thr Asn Thr Ser Asp Val Trp Lys Lys Gly Gly
 130 135 140
 Ser Glu Glu Asn Leu Cys Ala Gln Pro Tyr His Glu Ile Tyr Thr Arg
 145 150 155 160
 Asp Gly Asn Ser Tyr Gly Arg Pro Cys Glu Phe Pro Phe Leu Ile Gly
 165 170 175
 Glu Thr⁴ Trp Tyr His Asp Cys Ile His Asp Glu Asp His Ser Gly Pro
 180 185 190

Trp Cys Ala Thr Thr Leu Ser Tyr Glu Tyr Asp Gln Lys Trp Gly Ile
195 200 205

Cys Leu Leu Pro Glu Ser Gly Cys Glu Gly Asn Trp Glu Lys Asn Glu
210 215 220

Gln Ile Gly Ser Cys Tyr Gln Phe Asn Asn Gln Glu Ile Leu Ser Trp
225 230 235 240

Lys Glu Ala Tyr Val Ser Cys Gln Asn Gln Gly Ala Asp Leu Leu Ser
245 250 255

Ile His Ser Ala Ala Glu Leu Ala Tyr Ile Thr Gly Lys Glu Asp Ile
260 265 270

Ala Arg Leu Val Trp Leu Gly Leu Asn Gln Leu Tyr Ser Ala Arg Gly
275 280 285

Trp Glu Trp Ser Asp Phe Arg Pro Leu Lys Phe Leu Asn Trp Asp Pro
290 295 300

Gly Thr Pro Val Ala Pro Val Ile Gly Gly Ser Ser Cys Ala Arg Met
305 310 315 320

Asp Thr Glu Ser Gly Leu Trp Gln Ser Val Ser Cys Glu Ser Gln Gln
325 330 335

Pro Tyr Val Cys Lys Lys Pro Leu Asn Asn Thr Leu Glu Leu Pro Asp
340 345 350

Val Trp Thr Tyr Thr Asp Thr His Cys His Val Gly Trp Leu Pro Asn
355 360 365

Asn Gly Phe Cys Tyr Leu Leu Ala Asn Glu Ser Ser Ser Trp Asp Ala
370 375 380

Ala His Leu Lys Cys Lys Ala Phe Gly Ala Asp Leu Ile Ser Met His
385 390 395 400

Ser Leu Ala Asp Val Glu Val Val Val Thr Lys Leu His Asn Gly Asp
405 410 415

Val Lys Lys Glu Ile Trp Thr Gly Leu Lys Asn Thr Asn Ser Pro Ala
420 425 430

Leu Phe Gln Trp Ser Asp Gly Thr Glu Val Thr Leu Thr Tyr Trp Asn
435 440 445

Glu Asn Glu Pro Ser Val Pro Phe Asn Lys Thr Pro Asn Cys Val Ser
450 455 460

Tyr Leu Gly Lys Leu Gly Gln Trp Lys Val Gln Ser Cys Glu Lys Lys
465 470 475 480

Leu Arg Tyr Val Cys Lys Lys Lys Gly Glu Ile Thr Lys Asp Ala Glu
485 490 495

Ser Asp Lys Leu Cys Pro Pro Asp Glu Gly Trp Lys Arg His Gly Glu
500 505 510

Thr Cys Tyr Lys Ile Tyr Glu Lys Glu Ala Pro Phe Gly Thr Asn Cys
515 520 525

Asn Leu Thr Ile Thr Ser Arg Phe Glu Gln Glu Phe Leu Asn Tyr Met
530 535 540

Met Lys Asn Tyr Asp Lys Ser Leu Arg Lys Tyr Phe Trp Thr Gly Leu
545 550 555 560

Arg Asp Pro Asp Ser Arg Gly Glu Tyr Ser Trp Ala Val Ala Gln Gly
565 570 575

Val Lys Gln Ala Val Thr Phe Ser Asn Trp Asn Phe Leu Glu Pro Ala
580 585 590

Ser Pro Gly Gly Cys Val Ala Met Ser Thr Gly Lys Thr Leu Gly Lys
595 600 605

Trp Glu Val Lys Asn Cys Arg Ser Phe Arg Ala Leu Ser Ile Cys Lys
610 615 620

Lys Val Ser Glu Pro Gln Glu Pro Glu Glu Ala Ala Pro Lys Pro Asp
625 630 635 640

Asp Pro Cys Pro Glu Gly Trp His Thr Phe Pro Ser Ser Leu Ser Cys
 645 650 655

Tyr Lys Val Phe His Ile Glu Arg Ile Val Arg Lys Arg Asn Trp Glu
 660 665 670

Glu Ala Glu Arg Phe Cys Gln Ala Leu Gly Ala His Leu Pro Ser Phe
 675 680 685

Ser Arg Arg Glu Glu Ile Lys Asp Phe Val His Leu Leu Lys Asp Gln
 690 695 700

Phe Ser Gly Gln Arg Trp Leu Trp Ile Gly Leu Asn Lys Arg Ser Pro
 705 710 715 720

Asp Leu Gln Gly Ser Trp Gln Trp Ser Asp Arg Thr Pro Val Ser Ala
 725 730 735

Val Met Met Glu Pro Glu Phe Gln Gln Asp Phe Asp Ile Arg Asp Cys
 740 745 750

Ala Ala Ile Lys Val Leu Asp Val Pro Trp Arg Arg Val Trp His Leu
 755 760 765

Tyr Glu Asp Lys Asp Tyr Ala Tyr Trp Lys Pro Phe Ala Cys Asp Ala
 770 775 780

Lys Leu Glu Trp Val Cys Gln Ile Pro Lys Gly Ser Thr Pro Gln Met
 785 790 795 800

Pro Asp Trp Tyr Asn Pro Glu Arg Thr Gly Ile His Gly Pro Pro Val
 805 810 815

Ile Ile Glu Gly Ser Glu Tyr Trp Phe Val Ala Asp Pro His Leu Asn
 820 825 830

Tyr Glu Glu Ala Val Leu Tyr Cys Ala Ser Asn His Ser Phe Leu Ala
 835 840 845

Thr Ile Thr Ser Phe Thr Gly Leu Lys Ala Ile Lys Asn Lys Leu Ala
 850 855 860

Asn Ile Ser Gly Glu Glu Gln Lys Trp Trp Val Lys Thr Ser Glu Asn
865 870 875 880

Pro Ile Asp Arg Tyr Phe Leu Gly Ser Arg Arg Arg Leu Trp His His
885 890 895

Phe Pro Met Thr Phe Gly Asp Glu Cys Leu His Met Ser Ala Lys Thr
900 905 910

Trp Leu Val Asp Leu Ser Lys Arg Ala Asp Cys Asn Ala Lys Leu Pro
915 920 925

Phe Ile Cys Glu Arg Tyr Asn Val Ser Ser Leu Glu Lys Tyr Ser Pro
930 935 940

Asp Pro Ala Ala Lys Val Gln Cys Thr Glu Lys Trp Ile Pro Phe Gln
945 950 955 960

Asn Lys Cys Phe Leu Lys Val Asn Ser Gly Pro Val Thr Phe Ser Gln
965 970 975

Ala Ser Gly Ile Cys His Ser Tyr Gly Gly Thr Leu Pro Ser Val Leu
980 985 990

Ser Arg Gly Glu Gln Asp Phe Ile Ile Ser Leu Leu Pro Glu Met Glu
995 1000 1005

Ala Ser Leu Trp Ile Gly Leu Arg Trp Thr Ala Tyr Glu Arg Ile
1010 1015 1020

Asn Arg Trp Thr Asp Asn Arg Glu Leu Thr Tyr Ser Asn Phe His
1025 1030 1035

Pro Leu Leu Val Gly Arg Arg Leu Ser Ile Pro Thr Asn Phe Phe
1040 1045 1050

Asp Asp Glu Ser His Phe His Cys Ala Leu Ile Leu Asn Leu Lys
1055 1060 1065

Lys Ser Pro Leu Thr Gly Thr Trp Asn Phe Thr Ser Cys Ser Glu
1070 1075 1080

Arg	His	Ser	Leu	Ser	Leu	Cys	Gln	Lys	Tyr	Ser	Glu	Thr	Glu	Asp
1085						1090					1095			
Gly	Gln	Pro	Trp	Glu	Asn	Thr	Ser	Lys	Thr	Val	Lys	Tyr	Leu	Asn
1100						1105					1110			
Asn	Leu	Tyr	Lys	Ile	Ile	Ser	Lys	Pro	Leu	Thr	Trp	His	Gly	Ala
1115						1120					1125			
Leu	Lys	Glu	Cys	Met	Lys	Glu	Lys	Met	Arg	Leu	Val	Ser	Ile	Thr
1130						1135					1140			
Asp	Pro	Tyr	Gln	Gln	Ala	Phe	Leu	Ala	Val	Gln	Ala	Thr	Leu	Arg
1145						1150					1155			
Asn	Ser	Ser	Phe	Trp	Ile	Gly	Leu	Ser	Ser	Gln	Asp	Asp	Glu	Leu
1160						1165					1170			
Asn	Phe	Gly	Trp	Ser	Asp	Gly	Lys	Arg	Leu	Gln	Phe	Ser	Asn	Trp
1175						1180					1185			
Ala	Gly	Ser	Asn	Glu	Gln	Leu	Asp	Asp	Cys	Val	Ile	Leu	Asp	Thr
1190						1195					1200			
Asp	Gly	Phe	Trp	Lys	Thr	Ala	Asp	Cys	Asp	Asp	Asn	Gln	Pro	Gly
1205						1210					1215			
Ala	Ile	Cys	Tyr	Tyr	Pro	Gly	Asn	Glu	Thr	Glu	Glu	Glu	Val	Arg
1220						1225					1230			
Ala	Leu	Asp	Thr	Ala	Lys	Cys	Pro	Ser	Pro	Val	Gln	Ser	Thr	Pro
1235						1240					1245			
Trp	Ile	Pro	Phe	Gln	Asn	Ser	Cys	Tyr	Asn	Phe	Met	Ile	Thr	Asn
1250						1255					1260			
Asn	Arg	His	Lys	Thr	Val	Thr	Pro	Glu	Glu	Val	Gln	Ser	Thr	Cys
1265						1270					1275			
Glu	Lys	Leu	His	Pro	Lys	Ala	His	Ser	Leu	Ser	Ile	Arg	Asn	Glu
1280						1285					1290			

Glu	Glu	Asn	Thr	Phe	Val	Val	Glu	Gln	Leu	Leu	Tyr	Phe	Asn	Tyr
1295						1300					1305			
Ile	Ala	Ser	Trp	Val	Met	Leu	Gly	Ile	Thr	Tyr	Glu	Asn	Asn	Ser
1310						1315					1320			
Leu	Met	Trp	Phe	Asp	Lys	Thr	Ala	Leu	Ser	Tyr	Thr	His	Trp	Arg
1325						1330					1335			
Thr	Gly	Arg	Pro	Thr	Val	Lys	Asn	Gly	Lys	Phe	Leu	Ala	Gly	Leu
1340						1345					1350			
Ser	Thr	Asp	Gly	Phe	Trp	Asp	Ile	Gln	Ser	Phe	Asn	Val	Ile	Glu
1355						1360					1365			
Glu	Thr	Leu	His	Phe	Tyr	Gln	His	Ser	Ile	Ser	Ala	Cys	Lys	Ile
1370						1375					1380			
Glu	Met	Val	Asp	Tyr	Glu	Asp	Lys	His	Asn	Gly	Thr	Leu	Pro	Gln
1385						1390					1395			
Phe	Ile	Pro	Tyr	Lys	Asp	Gly	Val	Tyr	Ser	Val	Ile	Gln	Lys	Lys
1400						1405					1410			
Val	Thr	Trp	Tyr	Glu	Ala	Leu	Asn	Ala	Cys	Ser	Gln	Ser	Gly	Gly
1415						1420					1425			
Glu	Leu	Ala	Ser	Val	His	Asn	Pro	Asn	Gly	Lys	Leu	Phe	Leu	Glu
1430						1435					1440			
Asp	Ile	Val	Asn	Arg	Asp	Gly	Phe	Pro	Leu	Trp	Val	Gly	Leu	Ser
1445						1450					1455			
Ser	His	Asp	Gly	Ser	Glu	Ser	Ser	Phe	Glu	Trp	Ser	Asp	Gly	Arg
1460						1465					1470			
Ala	Phe	Asp	Tyr	Val	Pro	Trp	Gln	Ser	Leu	Gln	Ser	Pro	Gly	Asp
1475						1480					1485			
Cys	Val	Val	Leu	Tyr	Pro	Lys	Gly	Ile	Trp	Arg	Arg	Glu	Lys	Cys
1490						1495					1500			

Leu	Ser	Val	Lys	Asp	Gly	Ala	Ile	Cys	Tyr	Lys	Pro	Thr	Lys	Asp
1505						1510					1515			
Lys	Lys	Leu	Ile	Phe	His	Val	Lys	Ser	Ser	Lys	Cys	Pro	Val	Ala
1520						1525					1530			
Lys	Arg	Asp	Gly	Pro	Gln	Trp	Val	Gln	Tyr	Gly	Gly	His	Cys	Tyr
1535						1540					1545			
Ala	Ser	Asp	Gln	Val	Leu	His	Ser	Phe	Ser	Glu	Ala	Lys	Gln	Val
1550						1555					1560			
Cys	Gln	Glu	Leu	Asp	His	Ser	Ala	Thr	Val	Val	Thr	Ile	Ala	Asp
1565						1570					1575			
Glu	Asn	Glu	Asn	Lys	Phe	Val	Ser	Arg	Leu	Met	Arg	Glu	Asn	Tyr
1580						1585					1590			
Asn	Ile	Thr	Met	Arg	Val	Trp	Leu	Gly	Leu	Ser	Gln	His	Ser	Leu
1595						1600					1605			
Asp	Gln	Ser	Trp	Ser	Trp	Leu	Asp	Gly	Leu	Asp	Val	Thr	Phe	Val
1610						1615					1620			
Lys	Trp	Glu	Asn	Lys	Thr	Lys	Asp	Gly	Asp	Gly	Lys	Cys	Ser	Ile
1625						1630					1635			
Leu	Ile	Ala	Ser	Asn	Glu	Thr	Trp	Arg	Lys	Val	His	Cys	Ser	Arg
1640						1645					1650			
Gly	Tyr	Ala	Arg	Ala	Val	Cys	Lys	Ile	Pro	Leu	Ser	Pro	Asp	Tyr
1655						1660					1665			
Thr	Gly	Ile	Ala	Ile	Leu	Phe	Ala	Val	Leu	Cys	Leu	Leu	Gly	Leu
1670						1675					1680			
Ile	Ser	Leu	Ala	Ile	Trp	Phe	Leu	Leu	Gln	Arg	Ser	His	Ile	Arg
1685						1690					1695			
Trp	Thr	Gly	Phe	Ser	Ser	Val	Arg	Tyr	Glu	His	Gly	Thr	Asn	Glu
1700						1705					1710			

Asp Glu Val Met Leu Pro Ser Phe His Asp
 1715 1720

<210> 4
 <211> 1462
 <212> PRT
 <213> Bos Taurus

<220>
 <223> PLA2 receptor

<400> 4
 Met Pro Leu Leu Ser Leu Ser Leu Leu Leu Leu Leu Leu Gln Val Pro
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Ala Gly Ser Ala Glu Thr Ala Ala Trp Ala Val Thr Pro Glu Arg Leu
 20 25 30

Arg Glu Trp Gln Asp Lys Gly Ile Phe Ile Ile Gln Ser Glu Asn Leu
 35 40 45

Glu Lys Cys Ile Gln Ala Ser Lys Ser Thr Leu Thr Leu Glu Asn Cys
 50 55 60

Lys Pro Pro Asn Lys Tyr Met Leu Trp Lys Trp Val Ser Asn His Arg
 65 70 75 80

Leu Phe Asn Ile Gly Gly Ser Gly Cys Leu Gly Leu Asn Val Ser Ser
 85 90 95

Pro Glu Gln Pro Leu Ser Ile Tyr Glu Cys Asp Ser Thr His Val Ser
 100 105 110

Leu Lys Trp His Cys Asn Lys Lys Thr Ile Thr Gly Pro Leu Gln Tyr
 115 120 125

Leu Val Gln Val Lys Gln Asp Asn Thr Leu Val Ala Ser Arg Lys Tyr
 130 135 140

Leu His Lys Trp Val Ser Tyr Met Ser Gly Gly Gly Gly Ile Cys Asp
 145 150 155 160

Tyr Leu His Lys Asp Leu Tyr Thr Ile Lys Gly Asn Ala His Gly Thr
 165 170 175

Pro	Cys	Met	Phe	Pro	Phe	Gln	Tyr	Asn	Gln	Gln	Trp	His	His	Glu	Cys	180	185	190
Thr	Arg	Glu	Gly	Arg	Glu	Asp	Asn	Leu	Leu	Trp	Cys	Ala	Thr	Thr	Ser	195	200	205
Arg	Tyr	Glu	Arg	Asp	Glu	Lys	Trp	Gly	Phe	Cys	Pro	Asp	Pro	Thr	Ser	210	215	220
Thr	Glu	Val	Gly	Cys	Asp	Ala	Val	Trp	Glu	Lys	Asp	Leu	His	Ser	Arg	225	230	235
Ile	Cys	Tyr	Gln	Phe	Asn	Leu	Leu	Ser	Ser	Leu	Ser	Trp	Ser	Glu	Ala	245	250	255
His	Ser	Ser	Cys	Gln	Met	Gln	Gly	Ala	Ala	Leu	Leu	Ser	Ile	Ala	Asp	260	265	270
Glu	Thr	Glu	Glu	Asn	Phe	Val	Arg	Lys	His	Leu	Gly	Ser	Glu	Ala	Val	275	280	285
Glu	Val	Trp	Met	Gly	Leu	Asn	Gln	Leu	Asp	Glu	Asp	Ala	Gly	Trp	Gln	290	295	300
Trp	Ser	Asp	Arg	Thr	Pro	Leu	Asn	Tyr	Leu	Asn	Trp	Lys	Pro	Glu	Ile	305	310	315
Asn	Phe	Glu	Pro	Phe	Val	Glu	Tyr	His	Cys	Gly	Thr	Phe	Asn	Ala	Phe	325	330	335
Met	Pro	Lys	Ala	Trp	Lys	Ser	Arg	Asp	Cys	Glu	Ser	Thr	Leu	Pro	Tyr	340	345	350
Val	Cys	Lys	Lys	Tyr	Leu	Asn	Pro	Thr	Asp	His	Gly	Val	Val	Glu	Lys	355	360	365
Asp	Ala	Trp	Lys	Tyr	Tyr	Ala	Thr	His	Cys	Glu	Pro	Gly	Trp	Asn	Pro	370	375	380
His	Asn	Arg	Asn	Cys	Tyr	Lys	Leu	Gln	Lys	Glu	Lys	Lys	Thr	Trp	Asn	385	390	395
																400		

His	Pro	Gly	Arg	Trp	Glu	Val	Arg	Asp	Cys	Arg	His	Phe	Lys	Ala	Met	625	630	635	640
Ser	Leu	Cys	Lys	Gln	Pro	Val	Glu	Asn	Arg	Glu	Lys	Thr	Lys	Gln	Glu	645	650	655	
Glu	Gly	Trp	Pro	Phe	His	Pro	Cys	Tyr	Leu	Asp	Trp	Glu	Ser	Glu	Pro	660	665	670	
Gly	Leu	Ala	Ser	Cys	Phe	Lys	Val	Phe	His	Ser	Glu	Lys	Val	Leu	Met	675	680	685	
Lys	Arg	Thr	Trp	Arg	Gln	Ala	Glu	Glu	Phe	Cys	Glu	Glu	Phe	Gly	Ala	690	695	700	
His	Leu	Ala	Ser	Phe	Ala	His	Ile	Glu	Glu	Glu	Asn	Phe	Val	Asn	Glu	705	710	715	720
Leu	Leu	His	Ser	Lys	Phe	Asn	Arg	Thr	Glu	Glu	Arg	Gln	Phe	Trp	Ile	725	730	735	
Gly	Phe	Asn	Lys	Arg	Asn	Pro	Leu	Asn	Ala	Gly	Ser	Trp	Glu	Trp	Ser	740	745	750	
Asp	Gly	Thr	Pro	Val	Val	Ser	Ser	Phe	Leu	Asp	Asn	Ser	Tyr	Phe	Gly	755	760	765	
Glu	Asp	Ala	Arg	Asn	Cys	Ala	Val	Tyr	Lys	Ala	Asn	Lys	Thr	Leu	Leu	770	775	780	
Pro	Ser	Tyr	Cys	Gly	Ser	Lys	Arg	Glu	Trp	Ile	Cys	Lys	Ile	Pro	Arg	785	790	795	800
Asp	Val	Arg	Pro	Lys	Val	Pro	Pro	Trp	Tyr	Gln	Tyr	Asp	Ala	Pro	Trp	805	810	815	
Leu	Phe	Tyr	Gln	Asp	Ala	Glu	Tyr	Leu	Phe	His	Ile	Ser	Ala	Ser	Glu	820	825	830	
Trp	Ser	Ser	Phe	Glu	Phe	Val	Cys	Gly	Trp	Leu	Arg	Ser	Asp	Ile	Leu	835	840	845	

Thr Ile His Ser Ala His Glu Gln Glu Phe Ile His Ser Lys Ile Arg
 850 855 860

Ala Leu Ser Lys Tyr Gly Val Asn Trp Trp Ile Gly Leu Arg Glu Glu
 865 870 875 880

Arg Ala Ser Asp Glu Phe Arg Trp Arg Asp Gly Ser Pro Val Ile Tyr
 885 890 895

Gln Asn Trp Asp Lys Gly Lys Glu Arg Ser Met Gly Leu Asn Glu Ser
 900 905 910

Gln Arg Cys Gly Phe Ile Ser Ser Ile Thr Gly Leu Trp Ala Ser Glu
 915 920 925

Glu Cys Ser Ile Ser Met Pro Ser Ile Cys Lys Arg Lys Lys Val Trp
 930 935 940

Val Ile Glu Lys Lys Lys Asp Ile Pro Lys Gln His Gly Thr Cys Pro
 945 950 955 960

Lys Gly Trp Leu Tyr Phe Asp Tyr Lys Cys Leu Leu Leu Lys Ile Pro
 965 970 975

Glu Gly Pro Ser Asp Trp Lys Asn Trp Thr Ser Ala Gln Asp Phe Cys
 980 985 990

Val Glu Glu Gly Gly Thr Leu Val Ala Ile Glu Asn Glu Val Glu Gln
 995 1000 1005

Ala Phe Ile Thr Met Asn Leu Phe Gly His Thr Thr Asn Val Trp
 1010 1015 1020

Ile Gly Leu Gln Asp Asp Asp Tyr Glu Lys Trp Leu Asn Gly Arg
 1025 1030 1035

Pro Val Ser Tyr Ser Asn Trp Ser Pro Phe Asp Thr Lys Asn Ile
 1040 1045 1050

Pro Asn His Asn Thr Thr Glu Val Gln Lys Arg Ile Pro Leu Cys
 1055 1060 1065

Gly	Leu	Leu	Ser	Asn	Asn	Pro	Asn	Phe	His	Phe	Thr	Gly	Lys	Trp
1070						1075					1080			
Tyr	Phe	Asp	Cys	Arg	Glu	Gly	Tyr	Gly	Phe	Val	Cys	Glu	Lys	Met
1085						1090					1095			
Gln	Asp	Ala	Ser	Gly	His	Ser	Ile	Asn	Thr	Ser	Asp	Met	Tyr	Pro
1100						1105					1110			
Ile	Pro	Asn	Thr	Leu	Glu	Tyr	Gly	Asn	Arg	Thr	Tyr	Lys	Ile	Ile
1115						1120					1125			
Asn	Ala	Asn	Met	Thr	Trp	Tyr	Thr	Ala	Leu	Lys	Thr	Cys	Leu	Met
1130						1135					1140			
His	Gly	Ala	Glu	Leu	Ala	Ser	Ile	Thr	Asp	Gln	Tyr	His	Gln	Ser
1145						1150					1155			
Phe	Leu	Thr	Val	Ile	Leu	Asn	Arg	Val	Gly	Tyr	Ala	His	Trp	Ile
1160						1165					1170			
Gly	Leu	Phe	Thr	Glu	Asp	Asn	Gly	Leu	Ser	Phe	Asp	Trp	Ser	Asp
1175						1180					1185			
Gly	Thr	Lys	Ser	Ser	Phe	Thr	Phe	Trp	Lys	Asp	Asp	Glu	Ser	Ser
1190						1195					1200			
Phe	Leu	Gly	Asp	Cys	Val	Phe	Ala	Asp	Thr	Ser	Gly	Arg	Trp	Ser
1205						1210					1215			
Ser	Thr	Ala	Cys	Glu	Ser	Tyr	Leu	Gln	Gly	Ala	Ile	Cys	Gln	Val
1220						1225					1230			
Pro	Thr	Glu	Thr	Arg	Leu	Ser	Gly	Arg	Leu	Glu	Leu	Cys	Ser	Glu
1235						1240					1245			
Thr	Ser	Ile	Pro	Trp	Ile	Lys	Phe	Lys	Ser	Asn	Cys	Tyr	Ser	Phe
1250						1255					1260			
Ser	Thr	Val	Leu	Glu	Ser	Thr	Ser	Phe	Glu	Ala	Ala	His	Glu	Phe
1265						1270					1275			

Cys Lys Lys Lys Gly Ser Asn Leu Leu Thr Ile Lys Asp Glu Ala
1280 1285 1290

Glu Asn Ser Phe Leu Leu Glu Glu Leu Leu Ala Phe Arg Ser Ser
1295 1300 1305

Val Gln Met Ile Trp Leu Asn Ala Gln Phe Asp Gly Asp Asn Glu
1310 1315 1320

Thr Ile Lys Trp Phe Asp Gly Thr Pro Thr Asp Gln Ser Asn Trp
1325 1330 1335

Gly Ile Arg Lys Pro Glu Val Tyr His Phe Lys Pro His Leu Cys
1340 1345 1350

Val Ala Leu Arg Ile Pro Glu Gly Val Trp Gln Leu Ser Ser Cys
1355 1360 1365

Gln Asp Lys Lys Gly Phe Ile Cys Lys Met Glu Ala Asp Ile His
1370 1375 1380

Thr Val Lys Lys His Pro Gly Lys Gly Pro Ser His Ser Val Ile
1385 1390 1395

Pro Leu Thr Val Ala Leu Thr Leu Leu Val Ile Leu Ala Ile Ser
1400 1405 1410

Thr Leu Ser Phe Cys Met Tyr Lys His Ser His Ile Ile Phe Gly
1415 1420 1425

Arg Leu Ala Gln Phe Arg Asn Pro Tyr Tyr Pro Ser Ala Asn Phe
1430 1435 1440

Ser Thr Val His Leu Glu Glu Asn Ile Leu Ile Ser Asp Leu Glu
1445 1450 1455

Lys Asn Asp Gln
1460

<210> 5

<211> 1457

<212> PRT

<213> Homo sapiens

<220>

<223> Macrophage mannose receptor

<400> 5

Met Arg Leu Pro Leu Leu Leu Val Phe Ala Ser Val Ile Pro Gly Ala
1 5 10 15

Val Leu Leu Leu Asp Thr Arg Gln Phe Leu Ile Tyr Asn Glu Asp His
20 25 30

Lys Arg Cys Val Asp Ala Val Ser Pro Ser Ala Val Gln Thr Ala Ala
35 40 45

Cys Asn Gln Asp Ala Glu Ser Gln Lys Phe Arg Trp Val Ser Glu Ser
50 55 60

Gln Ile Met Ser Val Ala Phe Lys Leu Cys Leu Gly Val Pro Ser Lys
65 70 75 80

Thr Asp Trp Val Ala Ile Thr Leu Tyr Ala Cys Asp Ser Lys Ser Glu
85 90 95

Phe Gln Lys Trp Glu Cys Lys Asn Asp Thr Leu Leu Gly Ile Lys Gly
100 105 110

Glu Asp Leu Phe Phe Asn Tyr Gly Asn Arg Gln Glu Lys Asn Ile Met
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Leu Tyr Lys Gly Ser Gly Leu Trp Ser Arg Trp Lys Ile Tyr Gly Thr
130 135 140

Thr Asp Asn Leu Cys Ser Arg Gly Tyr Glu Ala Met Tyr Thr Leu Leu
145 150 155 160

Gly Asn Ala Asn Gly Ala Thr Cys Ala Phe Pro Phe Lys Phe Glu Asn
165 170 175

Lys Trp Tyr Ala Asp Cys Thr Ser Ala Gly Arg Ser Asp Gly Trp Leu
180 185 190

Trp Cys Gly Thr Thr Thr Asp Tyr Asp Thr Asp Lys Leu Phe Gly Tyr
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Cys Pro Leu Lys Phe Glu Gly Ser Glu Ser Leu Trp Asn Lys Asp Pro
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Leu Thr Ser Val Ser Tyr Gln Ile Asn Ser Lys Ser Ala Leu Thr Trp
 225 230 235 240

His Gln Ala Arg Lys Ser Cys Gln Gln Gln Asn Ala Glu Leu Leu Ser
 245 250 255

Ile Thr Glu Ile His Glu Gln Thr Tyr Leu Thr Gly Leu Thr Ser Ser
 260 265 270

Leu Thr Ser Gly Leu Trp Ile Gly Leu Asn Ser Leu Ser Phe Asn Ser
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Gly Trp Gln Trp Ser Asp Arg Ser Pro Phe Arg Tyr Leu Asn Trp Leu
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Pro Gly Ser Pro Ser Ala Glu Pro Gly Lys Ser Cys Val Ser Leu Asn
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Pro Gly Lys Asn Ala Lys Trp Glu Asn Leu Glu Cys Val Gln Lys Leu
 325 330 335

Gly Tyr Ile Cys Lys Lys Gly Asn Thr Thr Leu Asn Ser Phe Val Ile
 340 345 350

Pro Ser Glu Ser Asp Val Pro Thr His Cys Pro Ser Gln Trp Trp Pro
 355 360 365

Tyr Ala Gly His Cys Tyr Lys Ile His Arg Asp Glu Lys Lys Ile Gln
 370 375 380

Arg Asp Ala Leu Thr Thr Cys Arg Lys Glu Gly Gly Asp Leu Thr Ser
 385 390 395 400

Ile His Thr Ile Glu Glu Leu Asp Phe Ile Ile Ser Gln Leu Gly Tyr
 405 410 415

Glu Pro Asn Asp Glu Leu Trp Ile Gly Leu Asn Asp Ile Lys Ile Gln
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Met	Tyr	Phe	Glu	Trp	Ser	Asp	Gly	Thr	Pro	Val	Thr	Phe	Thr	Lys	Trp
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Leu	Arg	Gly	Glu	Pro	Ser	His	Glu	Asn	Asn	Arg	Gln	Glu	Asp	Cys	Val
	450					455					460				
Val	Met	Lys	Gly	Lys	Asp	Gly	Tyr	Trp	Ala	Asp	Arg	Gly	Cys	Glu	Trp
465					470					475					480
Pro	Leu	Gly	Tyr	Ile	Cys	Lys	Met	Lys	Ser	Arg	Ser	Gln	Gly	Pro	Glu
				485					490					495	
Ile	Val	Glu	Val	Glu	Lys	Gly	Cys	Arg	Lys	Gly	Trp	Lys	Lys	His	His
		500						505					510		
Phe	Tyr	Cys	Tyr	Met	Ile	Gly	His	Thr	Leu	Ser	Thr	Phe	Ala	Glu	Ala
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Asn	Gln	Thr	Cys	Asn	Asn	Glu	Asn	Ala	Tyr	Leu	Thr	Thr	Ile	Glu	Asp
	530					535					540				
Arg	Tyr	Glu	Gln	Ala	Phe	Leu	Thr	Ser	Phe	Val	Gly	Leu	Arg	Pro	Glu
545					550					555					560
Lys	Tyr	Phe	Trp	Thr	Gly	Leu	Ser	Asp	Ile	Gln	Thr	Lys	Gly	Thr	Phe
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Gln	Trp	Thr	Ile	Glu	Glu	Glu	Val	Arg	Phe	Thr	His	Trp	Asn	Ser	Asp
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Met	Pro	Gly	Arg	Lys	Pro	Gly	Cys	Val	Ala	Met	Arg	Thr	Gly	Ile	Ala
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Gly	Gly	Leu	Trp	Asp	Val	Leu	Lys	Cys	Asp	Glu	Lys	Ala	Lys	Phe	Val
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Cys	Lys	His	Trp	Ala	Glu	Gly	Val	Thr	His	Pro	Pro	Lys	Pro	Thr	Thr
625					630					635					640
Thr	Pro	Glu	Pro	Lys	Cys	Pro	Glu	Asp	Trp	Gly	Ala	Ser	Ser	Arg	Thr
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Ser Leu Cys Phe Lys Leu Tyr Ala Lys Gly Lys His Glu Lys Lys Thr
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Trp Phe Glu Ser Arg Asp Phe Cys Arg Ala Leu Gly Gly Asp Leu Ala
 675 680 685

Ser Ile Asn Asn Lys Glu Glu Gln Gln Thr Ile Trp Arg Leu Ile Thr
 690 695 700

Ala Ser Gly Ser Tyr His Lys Leu Phe Trp Leu Gly Leu Thr Tyr Gly
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Ser Pro Ser Glu Gly Phe Thr Trp Ser Asp Gly Ser Pro Val Ser Tyr
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Glu Asn Trp Ala Tyr Gly Glu Pro Asn Asn Tyr Gln Asn Val Glu Tyr
 740 745 750

Cys Gly Glu Leu Lys Gly Asp Pro Thr Met Ser Trp Asn Asp Ile Asn
 755 760 765

Cys Glu His Leu Asn Asn Trp Ile Cys Gln Ile Gln Lys Gly Gln Thr
 770 775 780

Pro Lys Pro Glu Pro Thr Pro Ala Pro Gln Asp Asn Pro Pro Val Thr
 785 790 795 800

Glu Asp Gly Trp Val Ile Tyr Lys Asp Tyr Gln Tyr Tyr Phe Ser Lys
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Glu Lys Glu Thr Met Asp Asn Ala Arg Ala Phe Cys Lys Arg Asn Phe
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Gly Asp Leu Val Ser Ile Gln Ser Glu Ser Glu Lys Lys Phe Leu Trp
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Lys Tyr Val Asn Arg Asn Asp Ala Gln Ser Ala Tyr Phe Ile Gly Leu
 850 855 860

Leu Ile Ser Leu Asp Lys Lys Phe Ala Trp Met Asp Gly Ser Lys Val
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Asp Tyr Val Ser Trp Ala Thr Gly Glu Pro Asn Phe Ala Asn Glu Asp
 885 890 895

Glu Asn Cys Val Thr Met Tyr Ser Asn Ser Gly Phe Trp Asn Asp Ile
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Asn Cys Gly Tyr Pro Asn Ala Phe Ile Cys Gln Arg His Asn Ser Ser
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Ile Asn Ala Thr Thr Val Met Pro Thr Met Pro Ser Val Pro Ser Gly
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Cys Lys Glu Gly Trp Asn Phe Tyr Ser Asn Lys Cys Phe Lys Ile Phe
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Gly Phe Met Glu Glu Glu Arg Lys Asn Trp Gln Glu Ala Arg Lys Ala
 965 970 975

Cys Ile Gly Phe Gly Gly Asn Leu Val Ser Ile Gln Asn Glu Lys Glu
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Gln Ala Phe Leu Thr Tyr His Met Lys Asp Ser Thr Phe Ser Ala Trp
 995 1000 1005

Thr Gly Leu Asn Asp Val Asn Ser Glu His Thr Phe Leu Trp Thr
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Asp Gly Arg Gly Val His Tyr Thr Asn Trp Gly Lys Gly Tyr Pro
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Gly Gly Arg Arg Ser Ser Leu Ser Tyr Glu Asp Ala Asp Cys Val
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Val Ile Ile Gly Gly Ala Ser Asn Glu Ala Gly Lys Trp Met Asp
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Asp Thr Cys Asp Ser Lys Arg Gly Tyr Ile Cys Gln Thr Arg Ser
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Asp Pro Ser Leu Thr Asn Pro Pro Ala Thr Ile Gln Thr Asp Gly
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Leu	Ile	Ala	Ser	Ile	Leu	Asp	Pro	Tyr	Ser	Asn	Ala	Phe	Ala	Trp
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Ser	Asn	Leu	Thr	Asp	Asn	Gln	Tyr	Thr	Trp	Thr	Asp	Lys	Trp	Arg
1160						1165					1170			
Val	Arg	Tyr	Thr	Asn	Trp	Ala	Ala	Asp	Glu	Pro	Lys	Leu	Lys	Ser
1175						1180					1185			
Ala	Cys	Val	Tyr	Leu	Asp	Leu	Asp	Gly	Tyr	Trp	Lys	Thr	Ala	His
1190						1195					1200			
Cys	Asn	Glu	Ser	Phe	Tyr	Phe	Leu	Cys	Lys	Arg	Ser	Asp	Glu	Ile
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Pro	Ala	Thr	Glu	Pro	Pro	Gln	Leu	Pro	Gly	Arg	Cys	Pro	Glu	Ser
1220						1225					1230			
Asp	His	Thr	Ala	Trp	Glu	Ile	Pro	Phe	His	Gly	His	Cys	Tyr	Tyr
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Ile	Glu	Ser	Ser	Tyr	Thr	Arg	Asn	Trp	Gly	Gln	Ala	Ser	Leu	Glu
1250						1255					1260			
Cys	Leu	Arg	Met	Gly	Ser	Ser	Leu	Val	Ser	Ile	Glu	Ser	Ala	Ala
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Glu	Ser	Ser	Phe	Leu	Ser	Tyr	Arg	Val	Glu	Pro	Leu	Lys	Ser	Lys
1280						1285					1290			
Thr	Asn	Phe	Trp	Ile	Gly	Leu	Phe	Arg	Asn	Val	Glu	Gly	Thr	Trp
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Gly Asp Pro Ser Gly Glu Arg Asn Asp Cys Val Ala Leu His Ala
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Ser Ser Gly Phe Trp Ser Asn Ile His Cys Ser Ser Tyr Lys Gly
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Tyr Ile Cys Lys Arg Pro Lys Ile Ile Asp Ala Lys Pro Thr His
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Glu Leu Leu Thr Thr Lys Ala Asp Thr Arg Lys Met Asp Pro Ser
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Lys Pro Ser Ser Asn Val Ala Gly Val Val Ile Ile Val Ile Leu
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Leu Ile Leu Thr Gly Ala Gly Leu Ala Ala Tyr Phe Phe Tyr Lys
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Lys Arg Arg Val His Leu Pro Gln Glu Gly Ala Phe Glu Asn Thr
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Gly Lys Cys

COPY



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EXAMINER

Ron Schwadron, Ph.D.

ART UNIT	PAPER
1644	200810

DATE MAILED:



Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth below or on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

SEQ IDs 7-12 are not homo sapien sequences or variants of homo sapien sequences, but represent artificial sequences which are consensus sequences between different proteins.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

/Ron Schwadron, Ph.D./
Primary Examiner, Art Unit 1644